Silicone Foams Stabilized by Surfactants Generated In Situ from Allyl-Functionalized PEG

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SUPPLEMENTARY INFORMATION

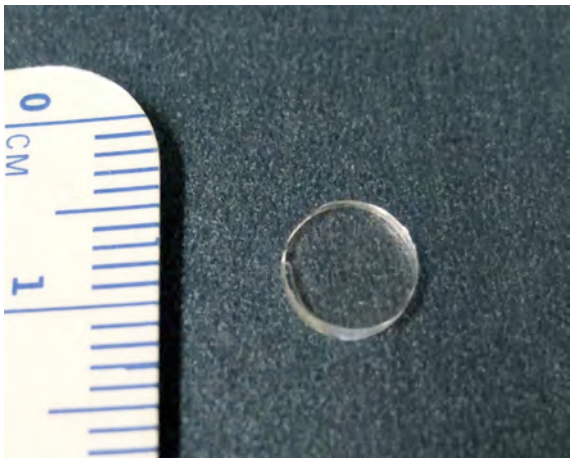


Figure 1S. Sylgard PDMS with DC1107 (10:1:1). Table 2, entry 1

Figure 2S. Sylgard PDMS (with DC1107) with monoallyl-PEG 500 MW 20% w/w cured under a vacuum of 176 Torr. Table 2, entry 2.

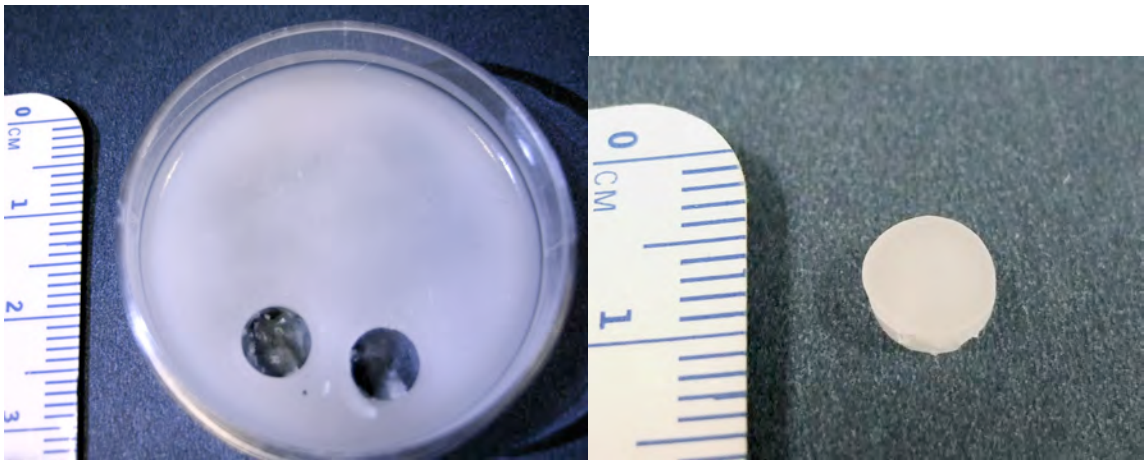


Figure 3S. Sylgard PDMS (with DC1107) with hydroxy-PEG 400MW 20% w/w cured under a vacuum of 176 Torr. Table 2, entry 5.

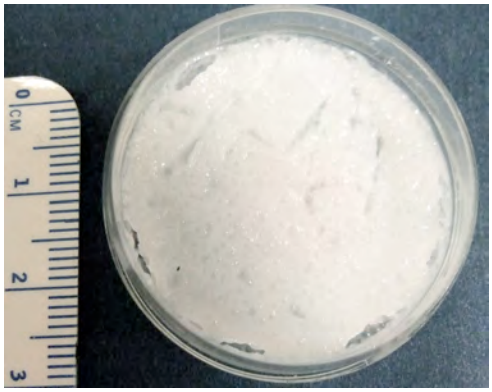


Figure 4S. Sylgard PDMS (with DC1107) with diallyl-PEG 500MW 20% w/w cured under 176 Torr. Table 2, entry 6.

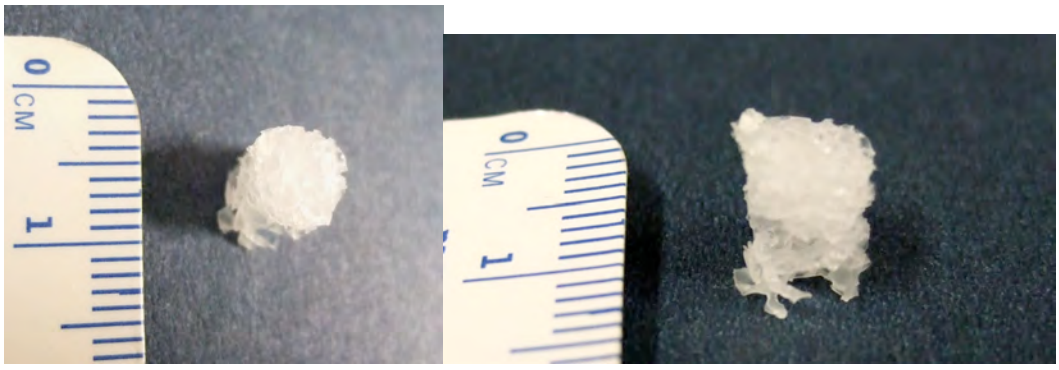
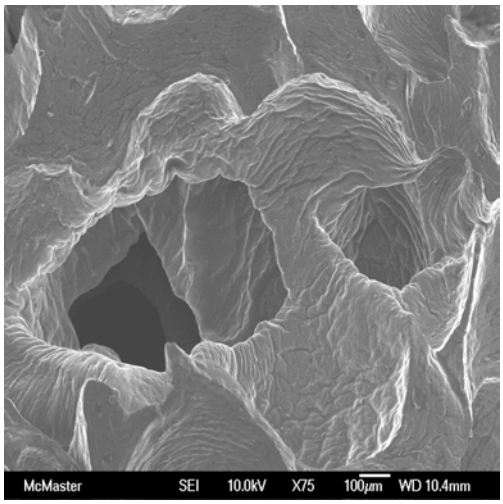
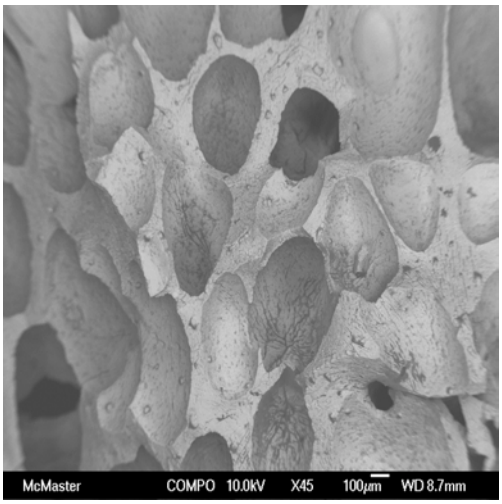


Figure 5S. Sylgard PDMS (with DC1107) with monoallyl-PEG 500MW 20%w/w cured under a vacuum of 176 Torr with excess catalyst (14 ppm Pt). Table 2, entry 7.

A 

B 

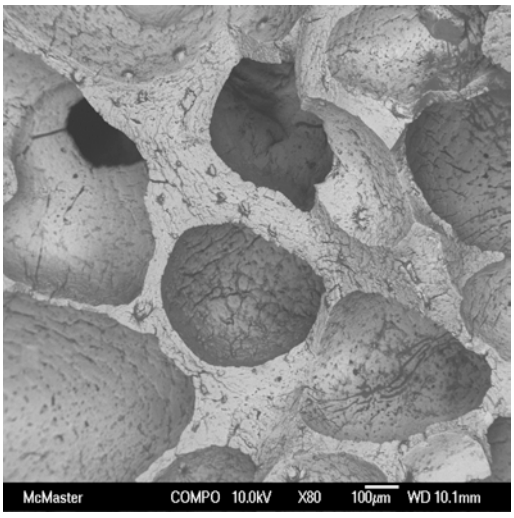
C 

Figure 6S. Silicone foams made with monoallyl-PEG MW500 in Sylgard 184 (Table 7, entry 9) A: SEM, B: with backscattering, C: zoom of B.

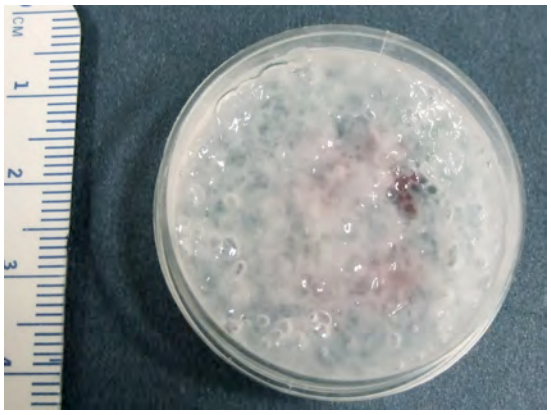


Figure 7S. Sylgard PDMS (with DC1107) with monoallyl-PEG 500MW 40% w/w cured under a vacuum of 176 Torr. Table 2, entry 12.

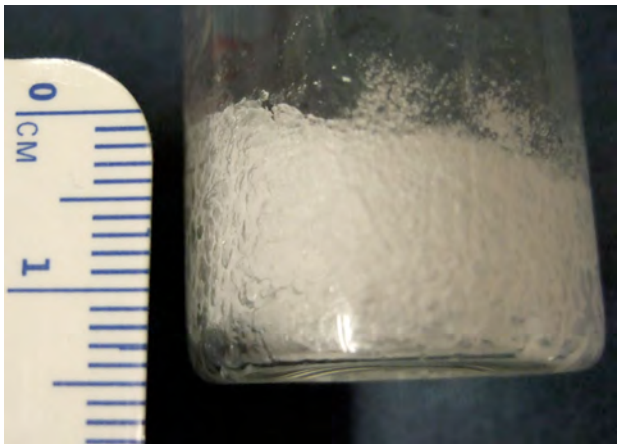


Figure 8S. Non-Sylgard PDMS with monoallyl-PEG 500MW 20% w/w cured under 749 Torr, 34 ppm Pt. Table 2, entry 17.

Figure 9S. ^{1}H NMR 1 hour after initial mixing of reagents. Recipe from Table 2, entry 19

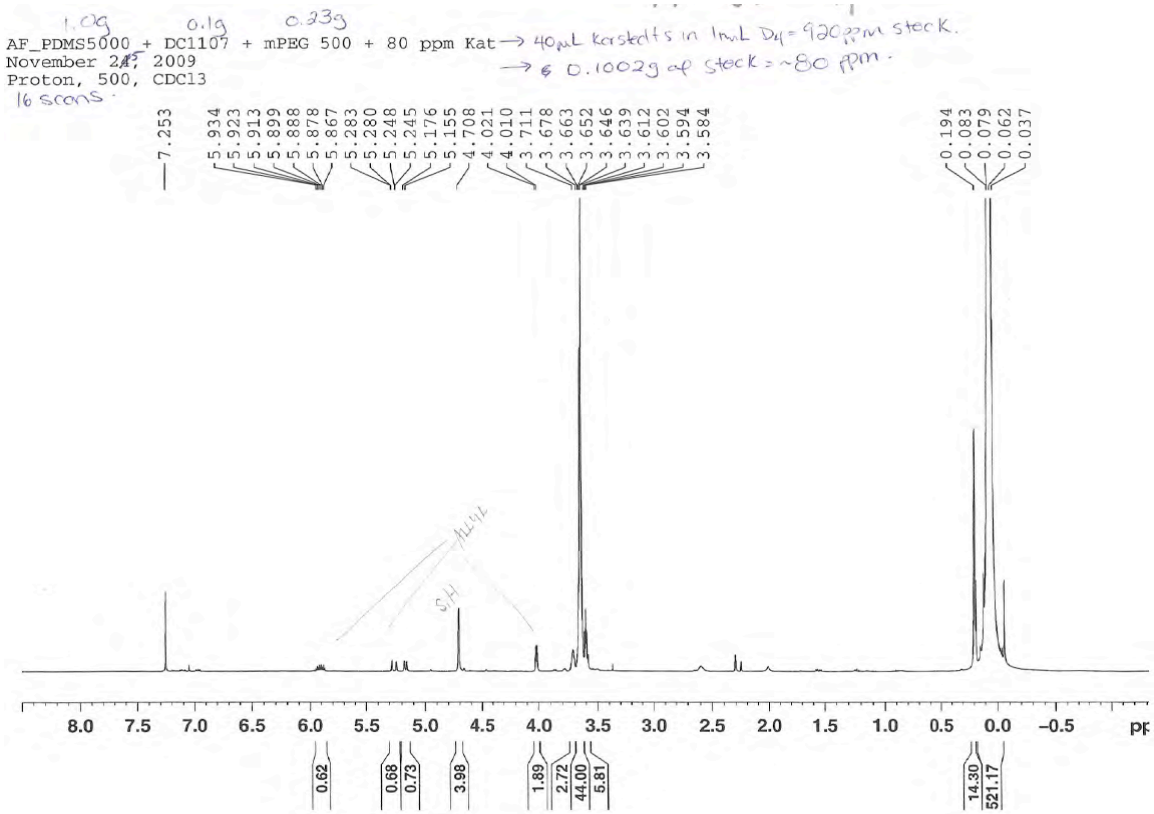


Figure 10S. ^{1}H NMR 2 days after mixing reagents. Recipe from Table 2, entry 19

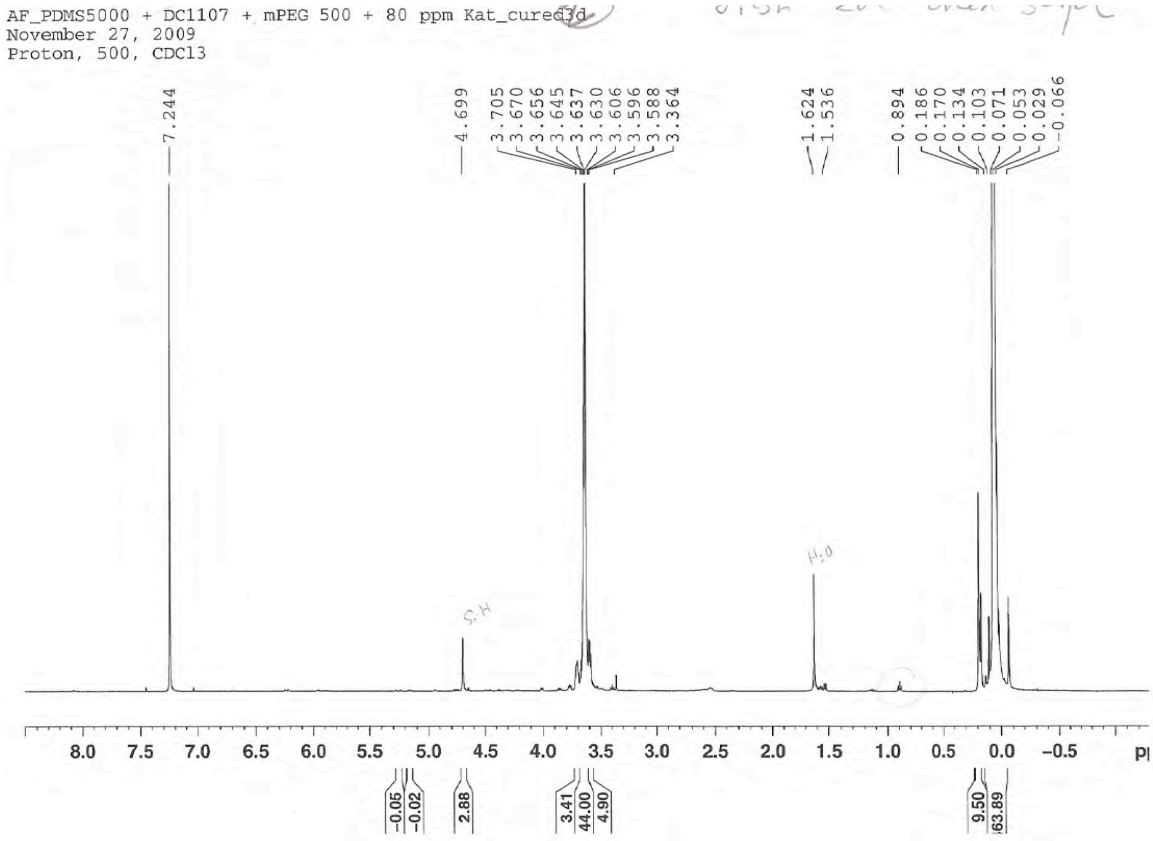


Figure 11S. Dynamic Viscosity over ~ 30 minutes. Recipe from Table 2, entry 19